

EXHIBIT 2

Novozymes Patents

INVENTION SHEET
NOVOZYMES A/S
- Strictly confidential-

This sheet must be filled-in as soon as possible after a potentially patentable invention has been conceived. The sheet should immediately be sent to the responsible Project Leader (PL) and Director (DIR), contact person in Patents (Pat-X), GeK/PDSH or ELam, IPP-DIR and L&S-MGR by email, and a signed and corroborated copy must be sent to GeK/PDSH or ELam/RLS by mail.

To be filled in by the Inventor:**1. Suggested Inventors (initials or name):**

OSi, EMa, HanR, SGK, Call, CIsJ

2. Suggestion for composition of the Working Group (WG), i.e. persons to be involved in drafting and prosecuting the patent application:

OSi, EMa, TTH

3. Project closest related to the invention; Responsible PL and DIR:

BesT, BesT implementation (PL: MeTF)

4. Brief description of the invention:

The quality of our enzyme granulates can be improved significantly by addition of the following components in the enzyme matrix/layer:

- Polymer (e.g. PVP, PVP copolymers) (0.2-5% pref. 1-2%)
- Organic matter (e.g. starch (rice, corn), protein, flour, sludge from e.g. enzyme fermentation/recovery) (2-50%, pref. 5-20%)
- Antioxidant (e.g. Sodium thiosulfate) (0.2-5%, pref. 1-3%)

The combination of these three is optimal

The technology can be implemented for all types of enzyme granules (high shear granules (T-granulates), core granulates (TK and GCI type), extrudates)

The components especially increase storage stability in powder detergents, both bleach and non-bleach and at low and high humidity. This effect can be further improved by:

- Addition of MgSO_4 (2-60%)
- Spray-drying the enzyme with one or more of the stabilizers (incl. MgSO_4), typically the enzyme constitute around 50% of the spray-dried powder
- Addition of thin salt coating layer

The granulates have also proved to be superior to current T-granules with regard to:

- Organic matter (especially starch) reduces odour from e.g. thiosulfate
- Particle size can be reduced without increasing dust
- Density is reduced
- More homogeneous enzyme activity (activity as function of particle size)
- Less dust
- More spherical shape

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- Increased whiteness (reduced titan consumption)

Other relevant issues:

It is the combination of the stabilizers that gives the overall increased quality. Example: Thiosulfate is an efficient antioxidant, but it is also hygroscopic, so if the amount is increased above a certain level (around 3%) the negative effect from the hygroscopic nature is getting dominating. PVP reduces the negative effect of thiosulfate and a further bleach stability can be obtained by inclusion of starch.

5. Potential utility and advantages of the invention:

The improvements can readily and relatively cheap be implemented for our T-granulates, and the implementation has already been initiated

6. Brief description of the experimental work done to date:

A relatively huge data material with different types and amounts of the components have been prepared, and is being prepared currently

7. Any external agreements or collaborations to be taken into account:

None

8. Please state any relevant background art and/or result of a novelty search:

NZ and GCI granulate patents in general, EP-075818A1 (spray-drying)
May be combined with the antioxidant/slurry patent currently being prepared

9. Expected commercial relevance for Novozymes A/S:

Very commercially relevant for the detergent industry (and on relatively short term, i.e. within 6-9 months).

10. Any special reasons for urgency:

Se above

11. This Invention Sheet is submitted by (initials or name, phone, fax):

OSi, 26257

Date:

Signature of Inventor:

Date:

Corroboration signature:

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**Completion of
INVENTION SHEET**

**To be filled in by the Patent Attorney (and forwarded to WG, PPG,
RG, L&S-MGR, IPP-DIR, GeK/PDSh, ELam, RLS and secretary)**

Docket number: #
Attorney/Secretary (Pat-X): #
PPG: #
ISG: #

Action:☐

1) An application is to be filed

- a) **Suggestions as to type and scope of claims (for filing and novelty search)**
- b) **Novelty search: Responsibility and target date**
- c) **Examples and/or background to be included: responsibility and target date**
- d) **First draft of the claims/application to WG or comment: target date**
- e) **Final draft for approval by external partners (if any): target date**
- f) **Expected filing date**

☐

2)

ON HOLD (further experimental work is needed before patenting is decided)

Key person:

Action due date:

Comments:

☐

3) Other types of actions

- a) Prophylactic publication of this know-how is suggested;

Comments:

- b) This know-how is suggested not to be patented, but to be kept secret;

Comments:

Date: #

Signature of Patent Attorney:

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